

Walchand College of Engineering, Sangli
Department of Computer Science and Engineering
Third Year – Programming Laboratory-3 (2021-22)
PRN: 2019BTECS00070

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Practical No. 4: To install and configure a Web Server.

Problem Statement 1:

1. Install a web server on your machine. Run the server locally.


ANS:

a. Download –

[Apache Friends](#) [Download](#) [Add-ons](#) [Hosting](#) [Community](#) [About](#) [Search](#) [EN](#)

Download

XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy.

 **XAMPP for Windows 7.3.30, 7.4.23 & 8.0.10**

Version	Checksum	Size
7.3.30 / PHP 7.3.30 What's Included?	md5 sha1 Download (64 bit)	158 Mb
7.4.23 / PHP 7.4.23 What's Included?	md5 sha1 Download (64 bit)	160 Mb
8.0.10 / PHP 8.0.10 What's Included?	md5 sha1 Download (64 bit)	161 Mb

[Requirements](#) [Add-ons](#) [More Downloads »](#)


Windows XP or 2003 are not supported. You can download a compatible version of XAMPP for these platforms [here](#).

Documentation/FAQs

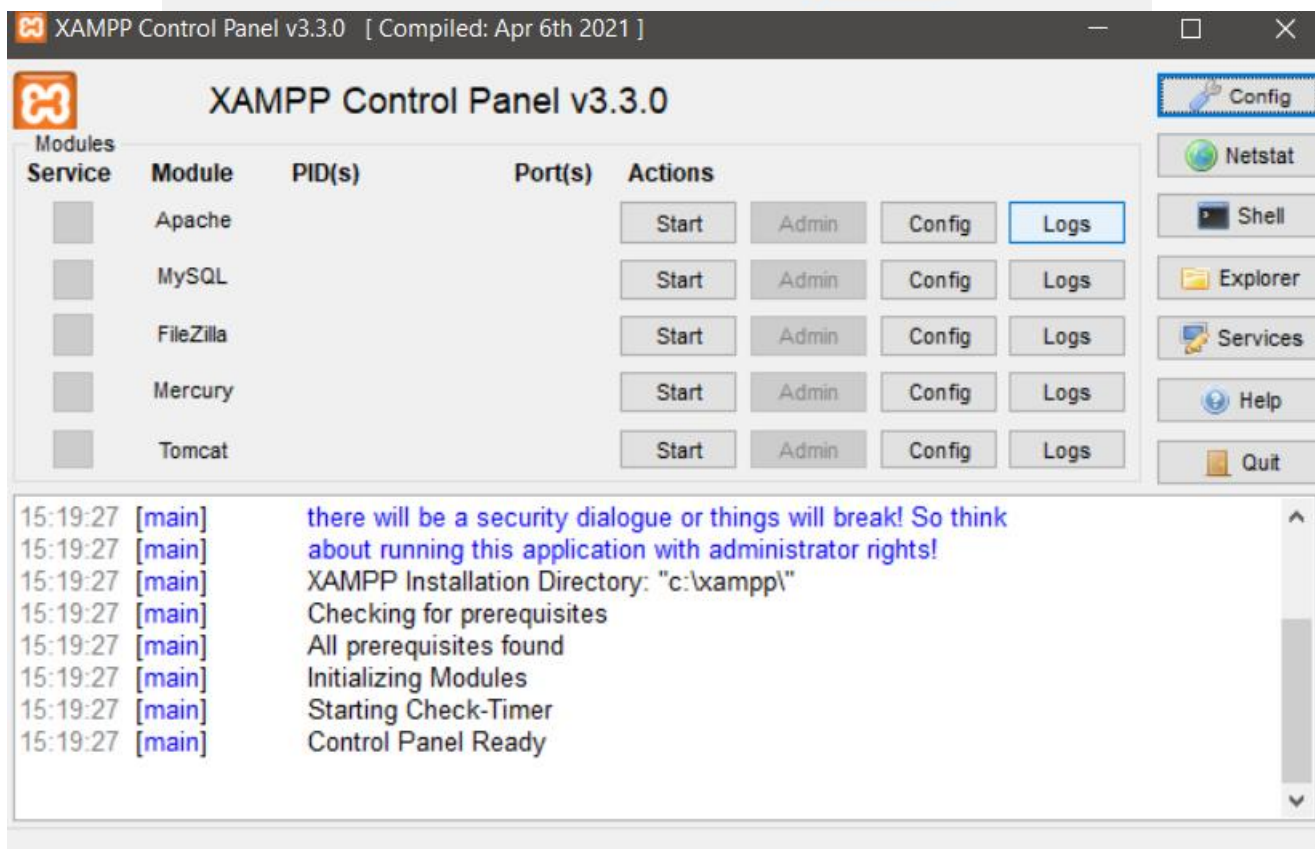
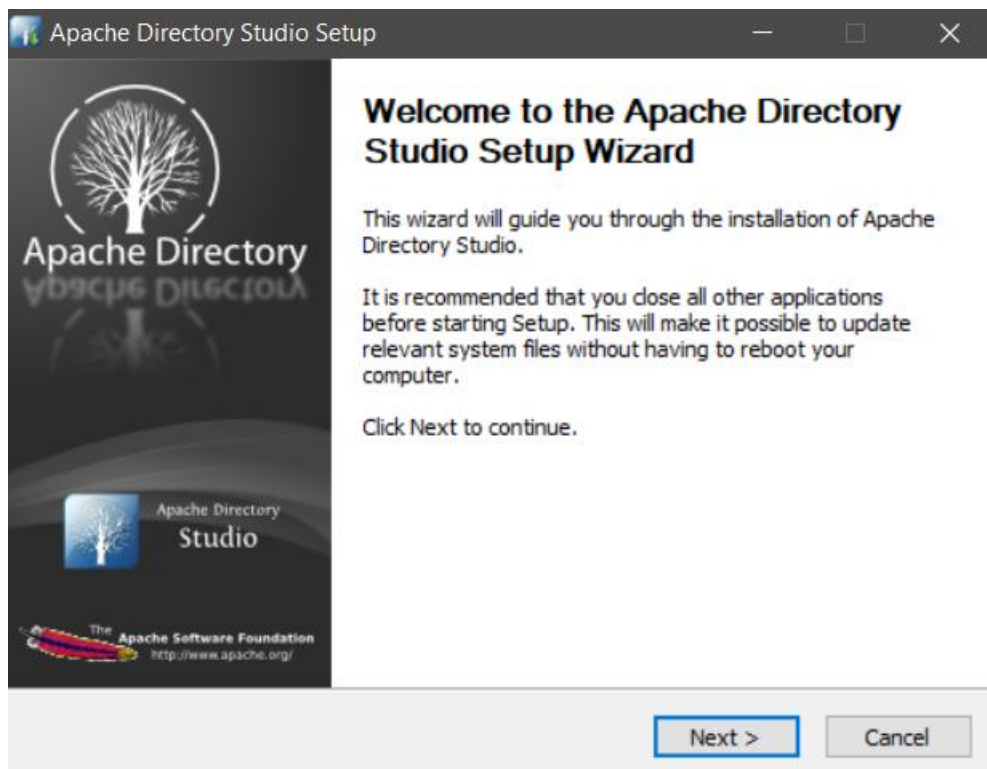
There is no real manual or handbook for XAMPP. We wrote the documentation in the form of FAQs. Have a burning question that's not answered here? Try the [Forums](#) or [Stack Overflow](#).

- [Linux FAQs](#)
- [Windows FAQs](#)
- [OS X FAQs](#)
- [OS X XAMPP-VM FAQs](#)

Add-ons



b. Install –



c. Running Server –

localhost/dashboard/

Walchand Gmail WhatsApp YouTube LinkedIn Contest List CodeChef WCE Calendar share doc Tutorials Future Ambassador Udemy ROS CPDP Eng Telegram Web

Apache Friends Applications FAQs HOW-TO Guides PHPInfo phpMyAdmin

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Module	PID(s)	Port(s)	Actions
Apache	924 1772	80, 443	Stop Admin Config Logs
MySQL	4128	3307	Stop Admin Config Logs
FileZilla			Start Admin Config Logs
Mercury			Start Admin Config Logs
Tomcat			Start Admin Config Logs

15:28:27 [mysql] Status change detected: stopped
15:28:29 [Apache] Attempting to stop Apache (PID: 14556)
15:28:29 [Apache] Attempting to stop Apache (PID: 10104)
15:28:29 [Apache] Status change detected: stopped
15:29:17 [Apache] Attempting to start Apache app...
15:29:18 [Apache] Status change detected: running
15:29:19 [mysql] Attempting to start MySQL app...
15:29:19 [mysql] Status change detected: running

Config Netstat Shell Explorer Services Help Quit

B + PHP + Perl

10

MariaDB, PHP and other components. You can PHP applications.

it make it easy to develop locally but that are XAMPP accessible from the internet, make sure site. Alternatively you can use WAMP, MAMP or

LAMP which are similar packages which are more suitable for production.

Start the XAMPP Control Panel to check the server status.

Community

XAMPP has been around for more than 10 years – there is a huge community behind it. You can get involved by joining our Forums, adding yourself to the Mailing List, and liking us on Facebook, following our exploits on Twitter, or adding us to your Google+ circles.

2. Locate and study its configuration file.

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Module	PID(s)	Port(s)	Actions
Apache			Start Admin Config Logs
MySQL			Start Admin Config Logs
FileZilla			Start Admin Config Logs
Mercury			Start Admin Config Logs
Tomcat			Start Admin Config Logs

Config Netstat Shell Explorer Services Help Quit

Configuration of Control Panel

Editor: notepad.exe

Browser (empty = system default)

Autostart of modules

☐ Apache ☐ FileZilla ☐ Tomcat

☐ MySQL ☐ Mercury

Selected modules will be started on next launch of the Control Panel.

☐ Start Control Panel Minimized

16:11:20 [main] there will be a security dialogue or things will break. So think

16:11:20 httpd.conf - Notepad

File Edit Format View Help

```
#
# This is the main Apache HTTP server configuration file. It contains the
# configuration directives that give the server its instructions.
# See <URL:http://httpd.apache.org/docs/2.4/> for detailed information.
# In particular, see
# <URL:http://httpd.apache.org/docs/2.4/mod/directives.html>
# for a discussion of each configuration directive.
#
# Do NOT simply read the instructions in here without understanding
# what they do. They're here only as hints or reminders. If you are unsure
# consult the online docs. You have been warned.
#
# Configuration and logfile names: If the filenames you specify for many
# of the server's control files begin with "/" (or "drive:/" for Win32), the
# server will use that explicit path. If the filenames do *not* begin
# with "/", the value of ServerRoot is prepended -- so "logs/access_log"
# with ServerRoot set to "/usr/local/apache2" will be interpreted by the
# server as "/usr/local/apache2/logs/access_log", whereas "/logs/access_log"
# will be interpreted as '/logs/access_log'.
#
# NOTE: Where filenames are specified, you must use forward slashes
# instead of backslashes (e.g., "c:/apache" instead of "c:\apache").
```

3. Change the port number in the configuration file to any other valid port number. Rerun the server locally using newly assigned port number.

ANS:

a. Old port number –

```
# directive.
#
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 80

#
# Dynamic Shared Object (DSO) Support
#
# To be able to use the functionality of a module which was built as a
# have to place corresponding 'LoadModule' lines at this location so the
# directives contained in it are actually available _before_ they are
# Statically compiled modules (those listed by 'httpd -l') do not need
# to be loaded here.
#
# Example:
# LoadModule foo_module modules/mod_foo.so
#
LoadModule access_compat_module modules/mod_access_compat.so
LoadModule actions_module modules/mod_actions.so
LoadModule alias_module modules/mod_alias.so
LoadModule allowmethods_module modules/mod_allowmethods.so
```

b. New Port Number –

```
..
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 8012
|
#
# Dynamic Shared Object (DSO) Support
#
# To be able to use the functionality of a module which was built as a DSO you
# have to place corresponding 'LoadModule' lines at this location so the
# directives contained in it are actually available _before_ they are used.
# Statically compiled modules (those listed by 'httpd -l') do not need
# to be loaded here.
#
# Example:
# LoadModule foo_module modules/mod_foo.so
#
LoadModule access_compat_module modules/mod_access_compat.so
LoadModule actions module modules/mod actions.so
```

c. Old SSL port –

```
# When we also provide SSL we have to listen to the
# standard HTTP port (see above) and to the HTTPS port
#
Listen 443|

##
##  SSL Global Context
##
##  All SSL configuration in this context applies both to
##  the main server and all SSL-enabled virtual hosts.
##

#  SSL Cipher Suite:
#  List the ciphers that the client is permitted to negotiate,
#  and that httpd will negotiate as the client of a proxied server.
#  See the OpenSSL documentation for a complete list of ciphers, and
```

d. New SSL port –

```
#
# When we also provide SSL we have to listen to the
# standard HTTP port (see above) and to the HTTPS port
#
Listen 443|

##
##  SSL Global Context
##
##  All SSL configuration in this context applies bo
##  the main server and all SSL-enabled virtual host
##

#  SSL Cipher Suite:
#  List the ciphers that the client is permitted to
#  and that httpd will negotiate as the client of a
#  See the OpenSSL documentation for a complete lis
#  ensure these follow appropriate best practices f
#  httpd 2.2.30, 2.4.13 and later force-disable aNU
#  while OpenSSL disabled these by default in 0.9.8
SSLCipherSuite HIGH:MEDIUM:!MD5:!RC4:!3DES
SSLProxyCipherSuite HIGH:MEDIUM:!MD5:!RC4:!3DES
<
```

.ANS:

The screenshot shows a web browser window with the address bar displaying 'localhost:8012/dashboard/'. The browser's address bar also shows a search bar with the text 'localhost:8012/dashboard/'. The browser's address bar also shows a search bar with the text 'localhost:8012/dashboard/'.

The Apache Friends website is visible in the background, featuring a navigation bar with links to Applications, FAQs, HOW-TO Guides, PHPInfo, and phpMyAdmin. The website's main content area is partially obscured by the XAMPP Control Panel window.

The XAMPP Control Panel v3.3.0 window is the primary focus. It displays a table of services and their configurations:

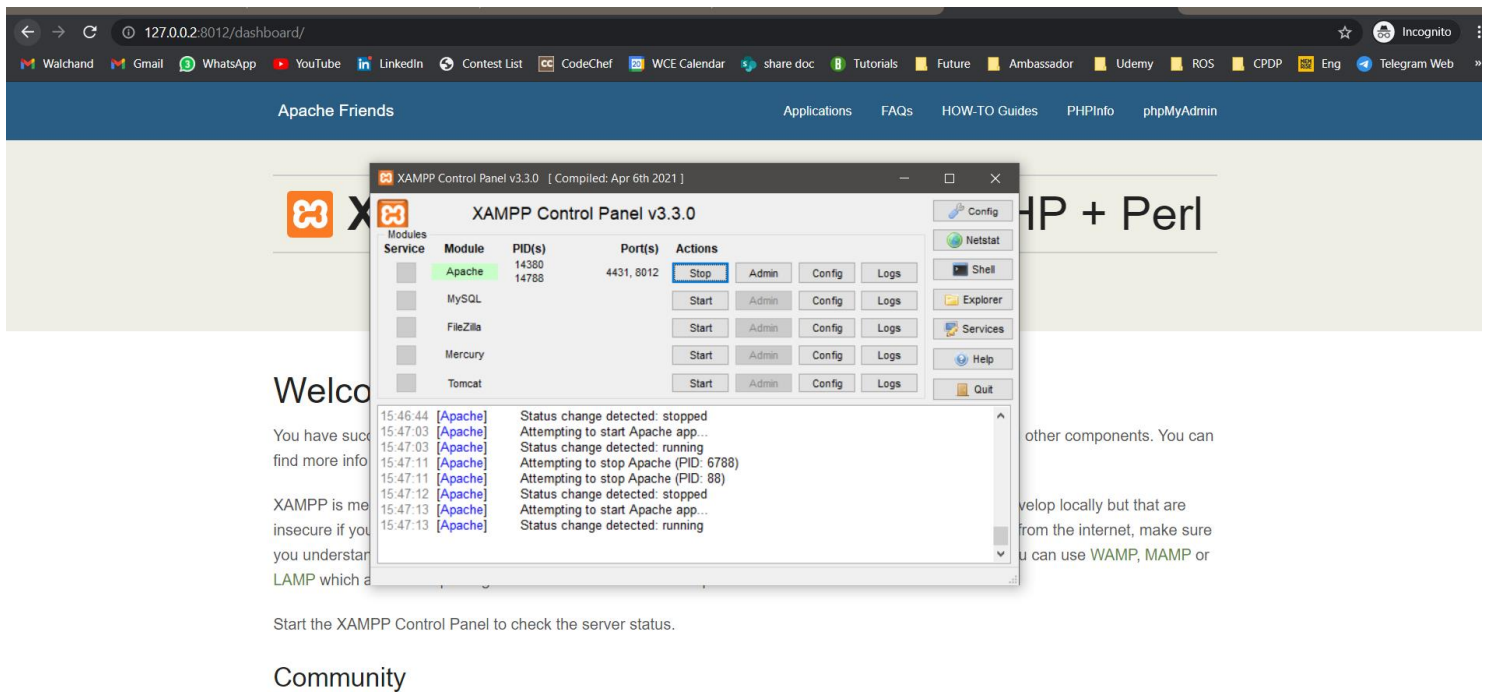
Service	Module	PID(s)	Port(s)	Actions
Apache	2588 11976	4431, 8012	Stop Admin Config Logs	
MySQL			Start Admin Config Logs	
FileZilla			Start Admin Config Logs	
Mercury			Start Admin Config Logs	
Tomcat			Start Admin Config Logs	

The Apache service is highlighted in green. The log window at the bottom of the panel shows the following status messages:

```

15:48:05 [Apache] Status change detected: stopped
15:48:08 [Apache] Attempting to start Apache app...
15:48:08 [Apache] Status change detected: running
15:48:22 [Apache] Attempting to stop Apache (PID: 4284)
15:48:22 [Apache] Attempting to stop Apache (PID: 14000)
15:48:23 [Apache] Status change detected: stopped
15:48:24 [Apache] Attempting to start Apache app...
15:48:25 [Apache] Status change detected: running
  
```

Running Server with Old IP address (localhost)



Running Server with New IP address (127.0.0.2 with port 8012)